

531778

Rec'd PTO 19 APR 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
6 May 2004 (06.05.2004)

PCT

(10) International Publication Number
WO 2004/039085 A1

(51) International Patent Classification⁷: H04N 9/31

(21) International Application Number: PCT/US2002/033546

(22) International Filing Date: 21 October 2002 (21.10.2002)

(25) Filing Language: English

(26) Publication Language: English

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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/039085 A1

(54) Title: EQUIPMENT, SYSTEMS AND METHODS FOR CONTROL OF COLOR IN PROJECTION DISPLAYS

(57) Abstract: The present invention discloses systems, equipment and methods that allow the improved adjustment of color in projection displays. Equipment, systems and methods are disclosed for matching the color balance of each display including the color of the display primaries and further equipment, systems and methods are disclosed for the correction of a field dependant color variation across the field of an SLM based projector.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 02/33546

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04N9/31

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 2002/033904 A1 (KOBA HIROKI ET AL) 21 March 2002 (2002-03-21)</p> <p>abstract column 3, paragraph 44 – paragraph 52; figures 1-3, 8A, 11-12B,</p> <p>—/—</p>	<p>1, 2, 11-13, 19-21, 23, 24, 28, 34-36, 38</p>

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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Date of the actual completion of the International search

21 May 2003

Date of mailing of the International search report

28/05/2003

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 02/33546

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>EP 0 415 164 A (VARI LITE INC) 6 March 1991 (1991-03-06)</p> <p>abstract column 5, line 40 -column 7, line 47; figures 1,2 column 10, line 20 -column 14, line 15; figures 4-6D,7</p>	1,3, 11-13, 19-25, 28,30, 34-36,38
A	<p>US 2001/048560 A1 (SUGANO YASUYUKI) 6 December 2001 (2001-12-06)</p> <p>abstract page 3, paragraph 35 -page 4, paragraph 47; figures 3,4</p>	1,3,16, 19,28,34

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 02/33546

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 2002033904	A1	21-03-2002	JP	2002090877 A		27-03-2002
			JP	2002101423 A		05-04-2002
EP 0415164	A	06-03-1991	US	5031078 A		09-07-1991
			EP	0415164 A1		06-03-1991
			JP	3116602 A		17-05-1991
US 2001048560	A1	06-12-2001	JP	2001343706 A		14-12-2001
			CN	1334487 A		06-02-2002